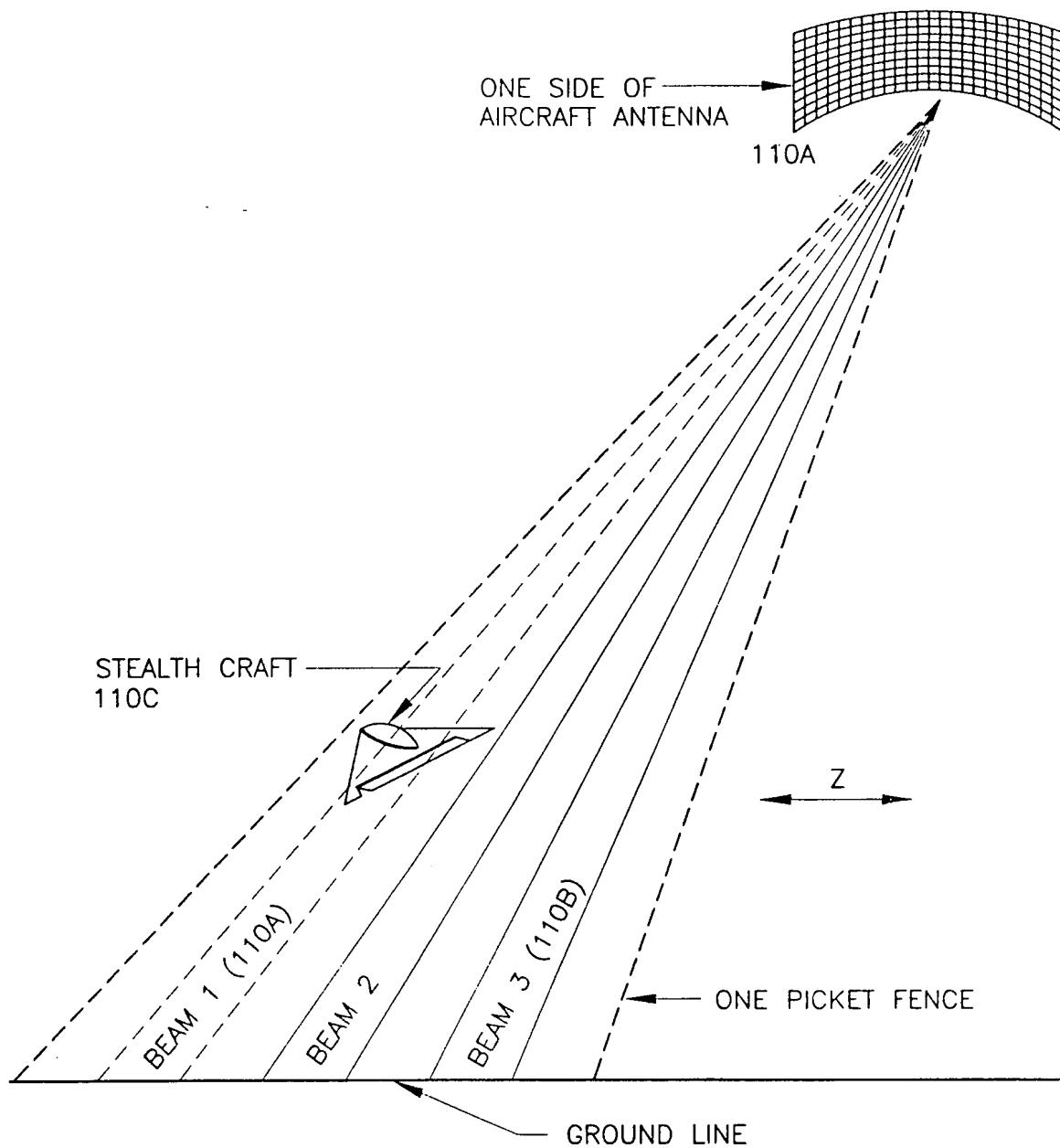


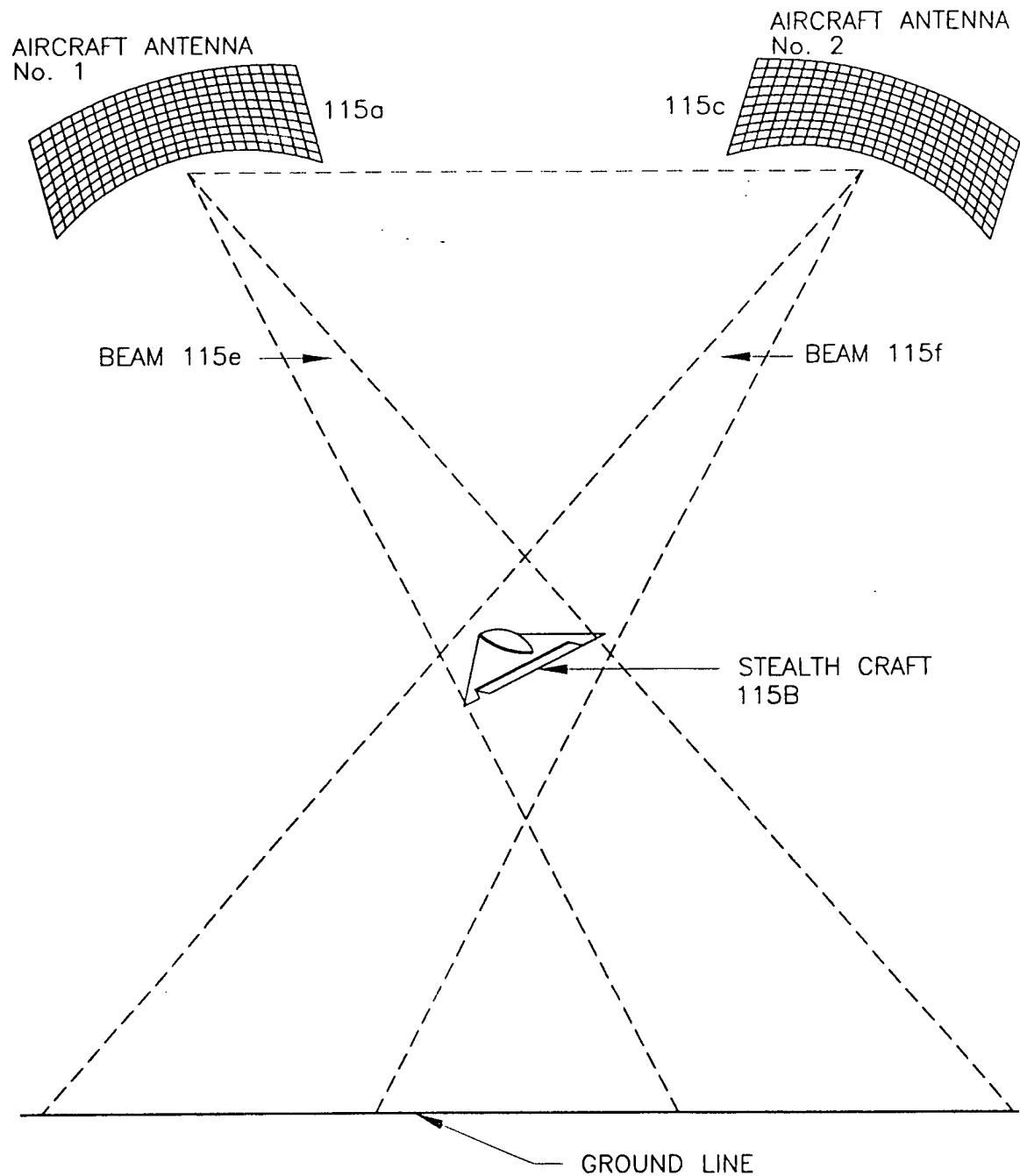
ELECTRONIC PICKET FENCES

FIG. 1



DETECTING A STEALTH CRAFT WITH  
A SINGLE TRANSMITTER/RECEIVER

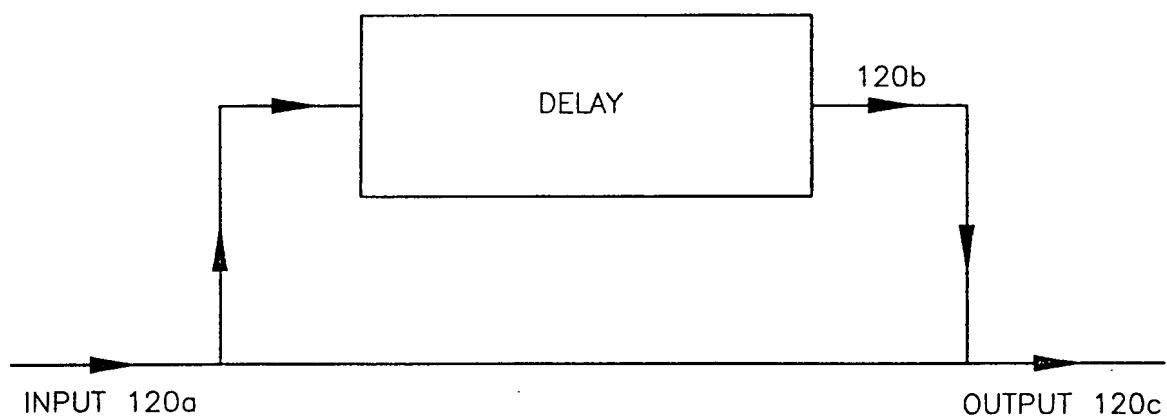
FIG. 2



DETECTING DISTANCE TO STEALTH CRAFT  
BY TRIANGULATION

FIG. 3

1/2 WAVELENGTH OR MULTIPLE OF 1/2 WAVE LENGTH



CANCELLATION

FIG. 4

### Background Cancellation and Leading and Trailing Edge Detection

	Current ground reflection i.e., Signal from current time	Previous ground reflection- Signal from current Time minus delay	Resulting Signal
Ground	S	S	NS
Leading edge air boundary	S	S	NS
Leading edge of craft	NS	S	S
Middle of craft	NS	NS	NS
Trailing edge of craft	NS	NS	NS
Trailing edge air boundary	S	NS	S

S = Signal  
NS = No Signal

Fig. 5

### Background Cancellation and Making a Silhouette White

	Current ground reflection i.e., Signal from current time	Previous ground reflection Signal from time before stealth detected	Resulting Signal
Ground	S	S	NS
Leading edge air boundary	S	S	NS
Leading edge of craft	NS	S	S
Middle of craft	NS	S	S
Trailing edge of craft	NS	S	S
Trailing edge air boundary	S	S	NS

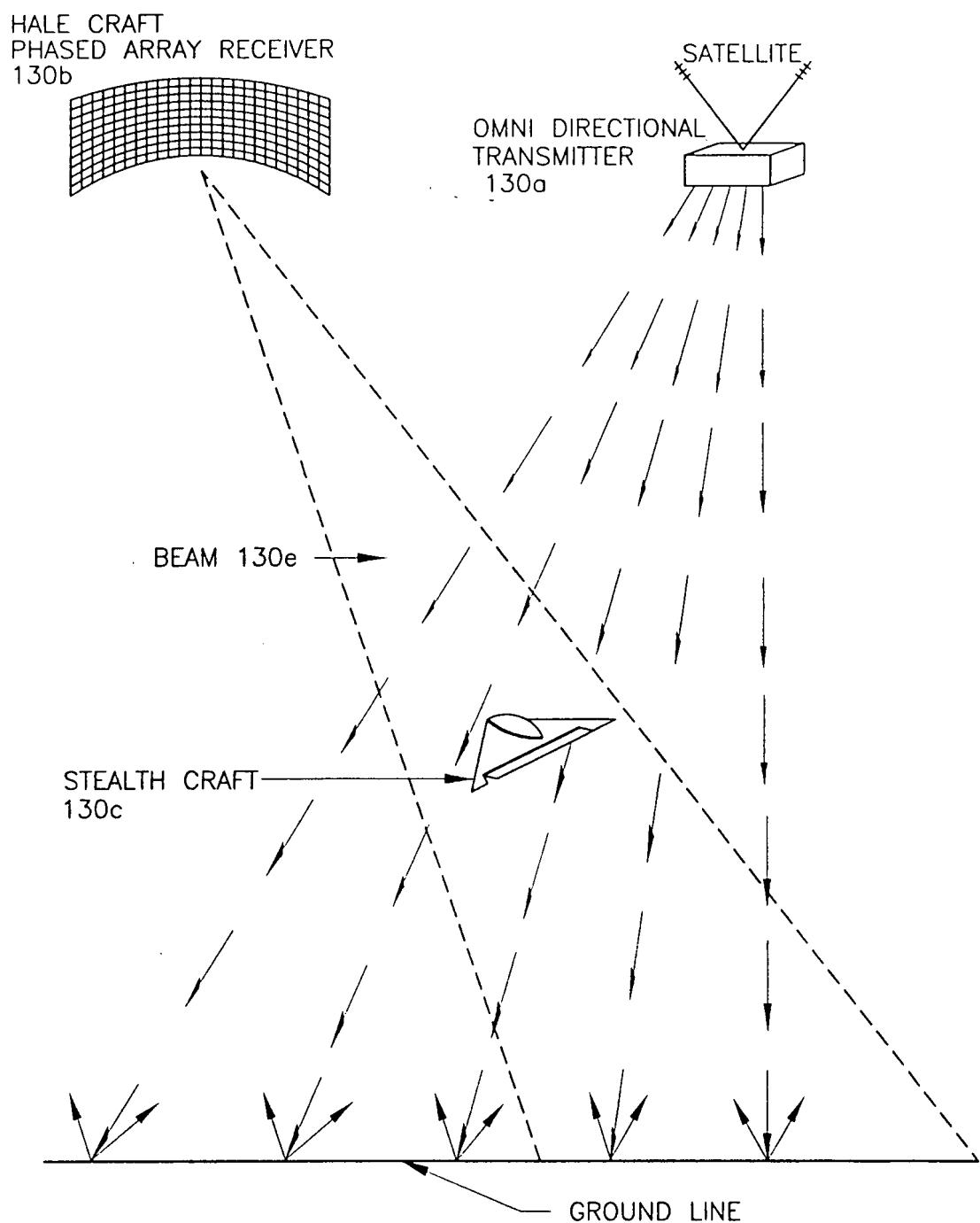
S = Signal  
NS = No Signal

Fig. 6

### Background Cancellation and Making a Shadow White Shadow

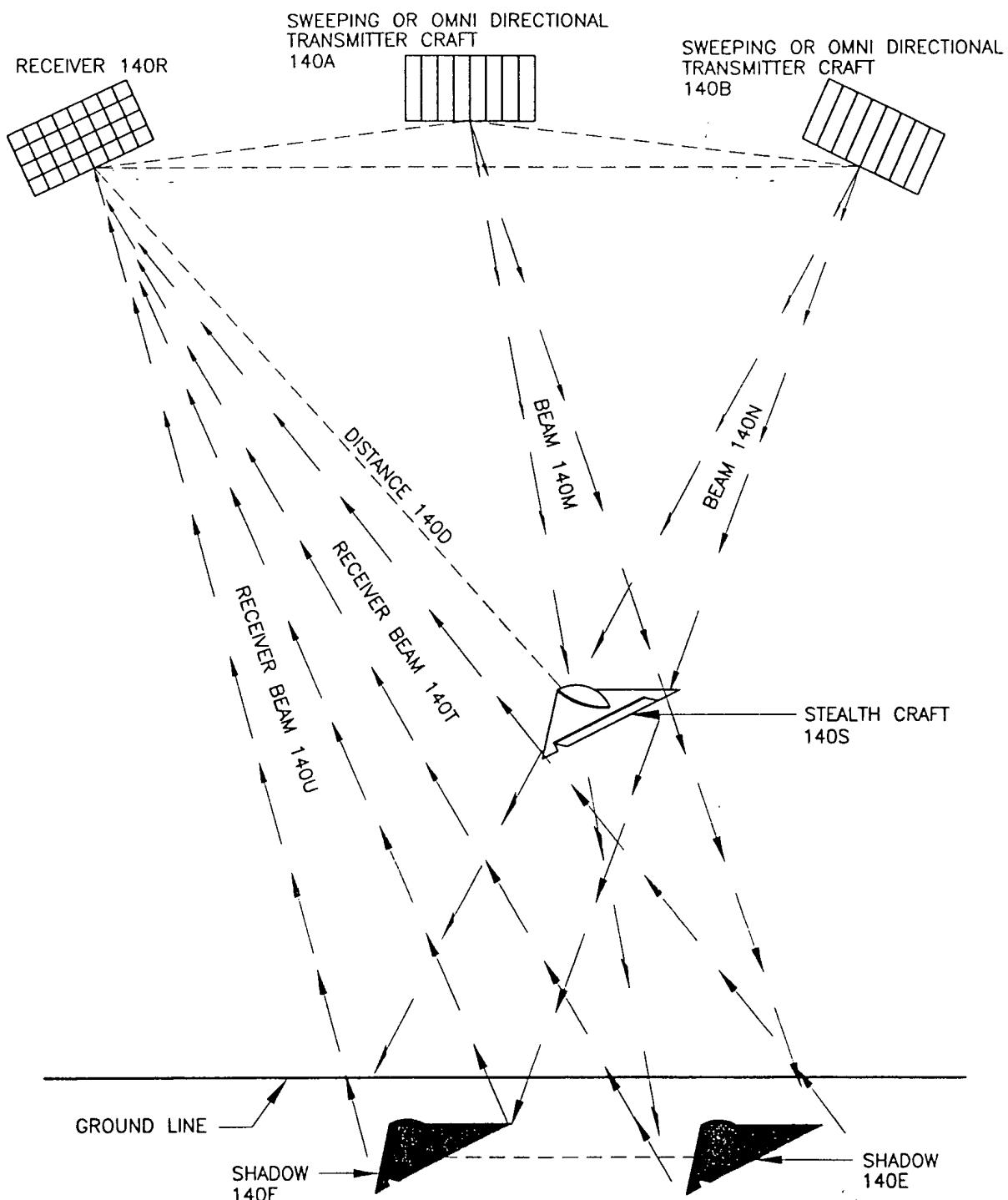
Area	Pre-Stealth Craft Signal (delayed reflection)	Current Signal (Current reflection)	Result
Current Shadow	Signal	No Signal	Signal
Non-Shadow	Signal	Signal	No Signal

Fig. 7

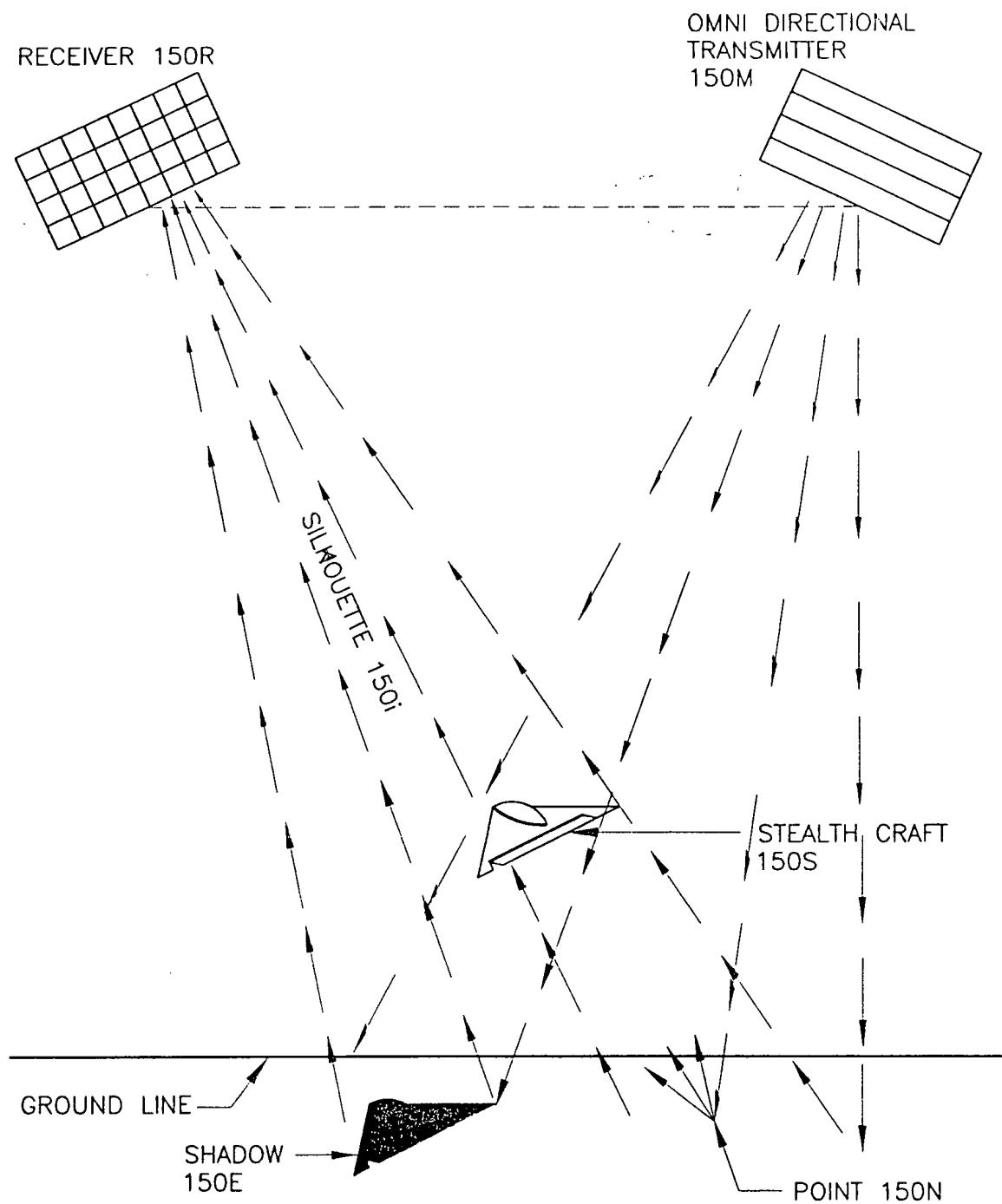


DETECTING A STEALTH CRAFT WITH  
OMNI DIRECTIONAL TRANSMITTER AND SEPARATE RECEIVER

FIG. 8

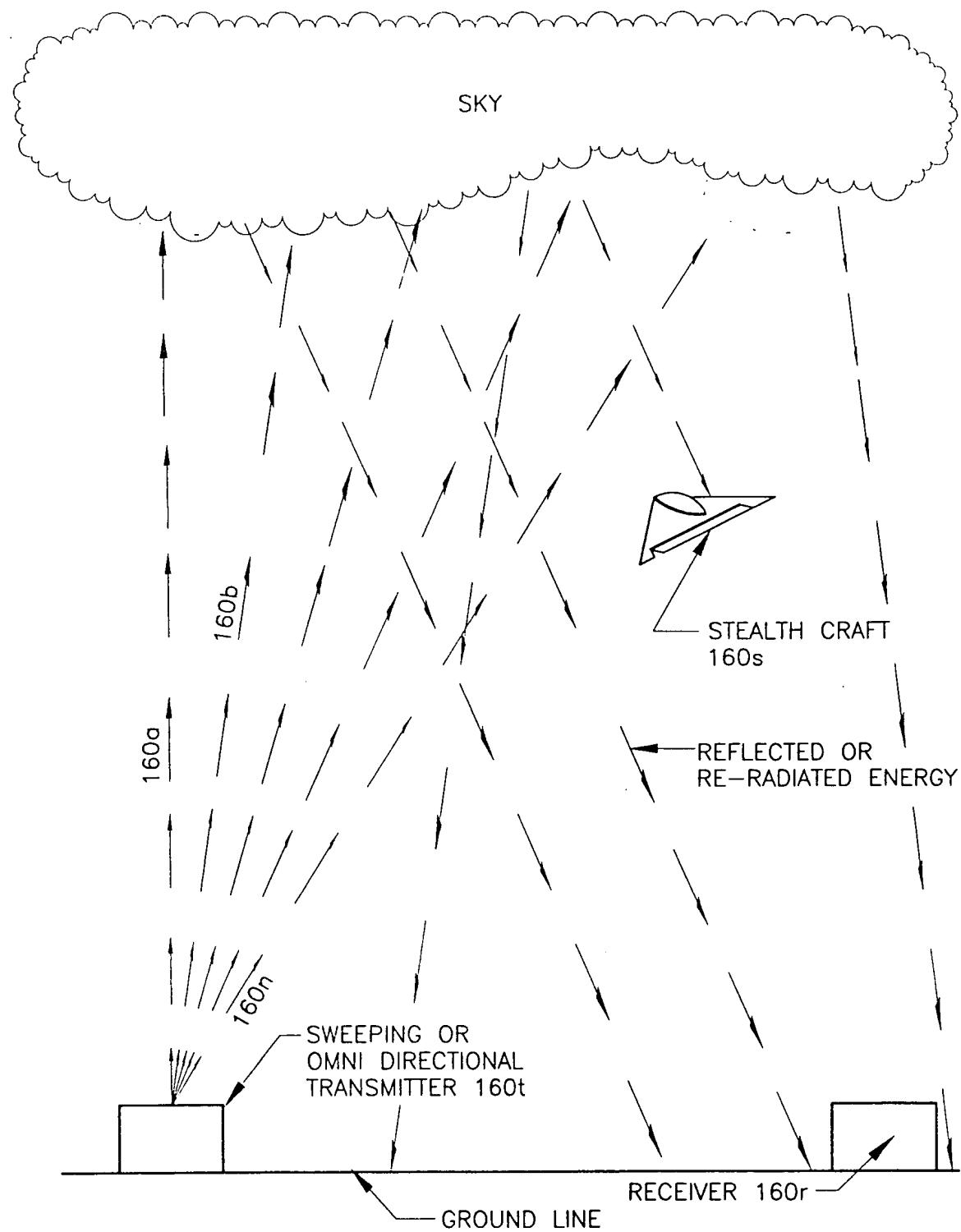


DETECTION AND DISTANCE DETERMINATION WITH  
TWO TRANSMITTERS AND ONE RECEIVER USING SHADOWS  
FIG. 9



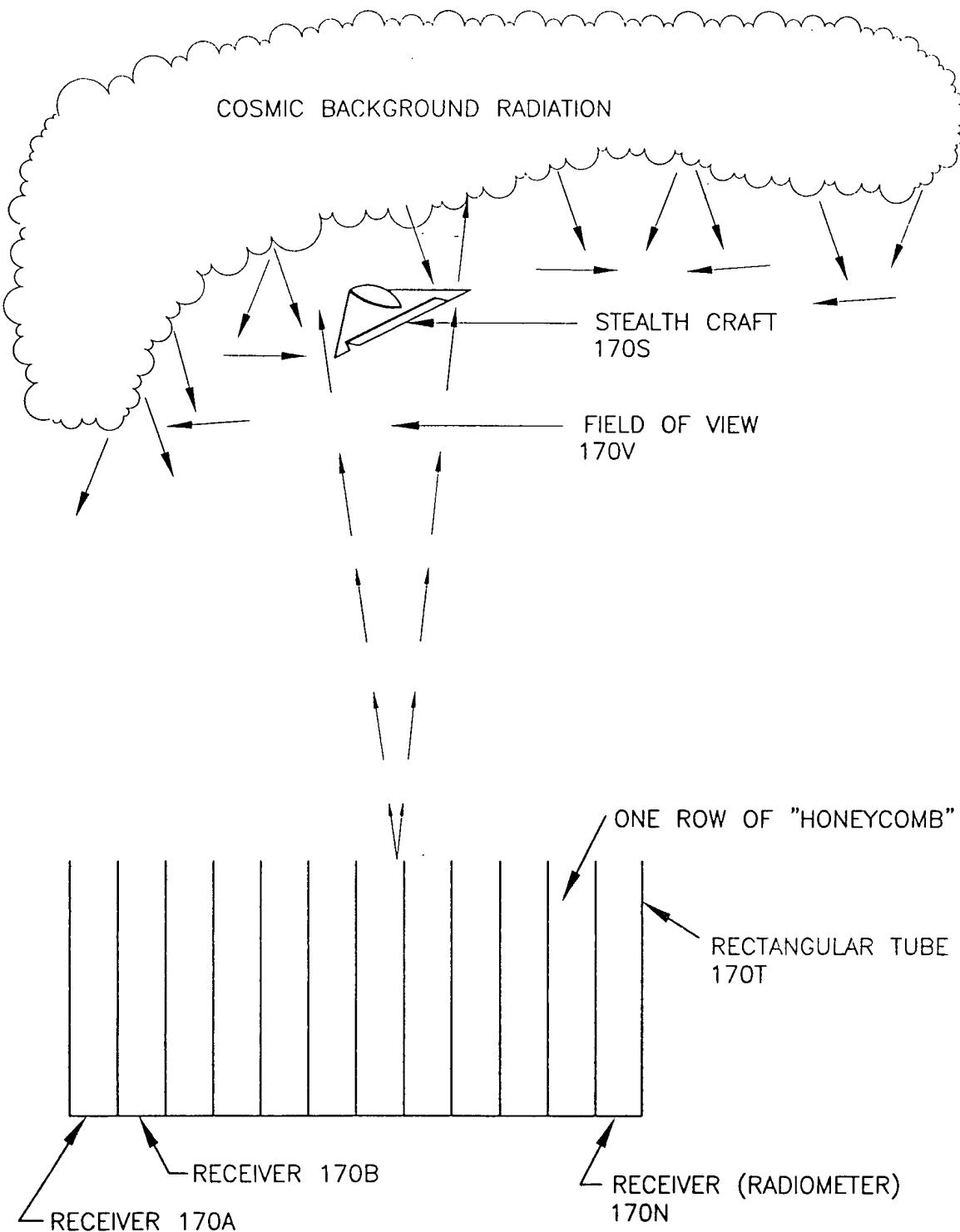
DETECTION AND DISTANCE DETERMINATION WITH  
ONE TRANSMITTER AND ONE RECEIVER  
USING BOTH SILHOUETTE AND SHADOW

FIG. 10



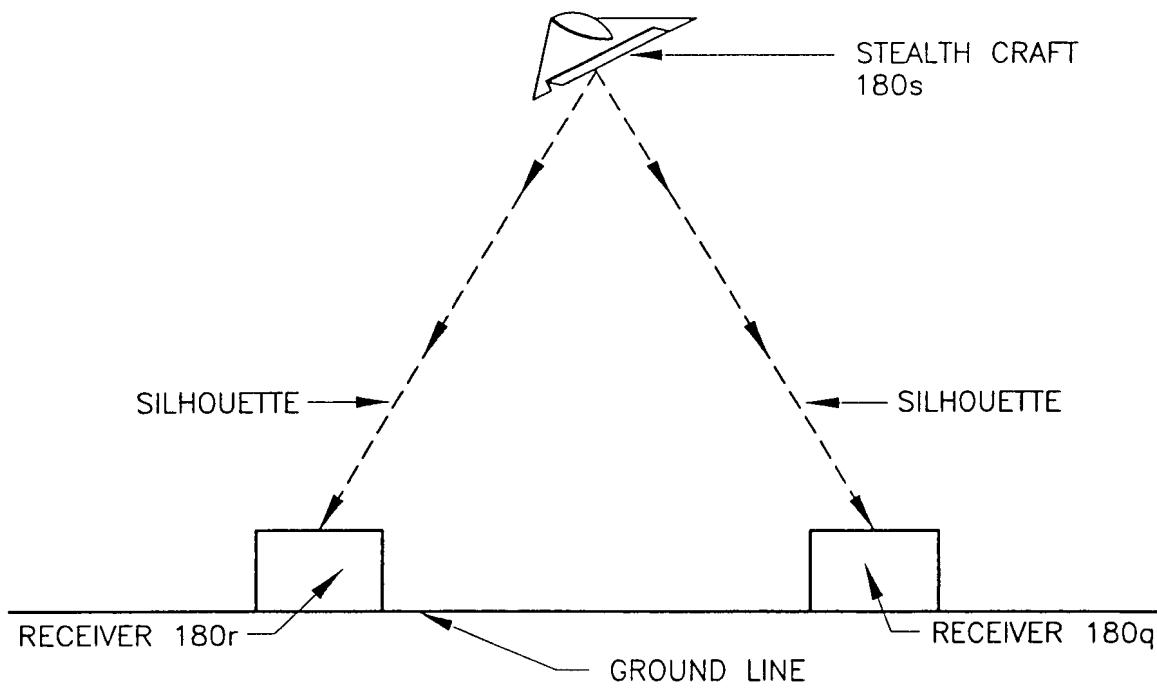
DETECTION OF STEALTH CRAFT USING  
THE SKY AS "REFLECTOR"

FIG. 11



DETECTION OF STEALTH CRAFT USING  
COSMIC BACKGROUND RADIATION

FIG. 12



PASSIVE (BACKGROUND) DISTANCE DETERMINATION  
DISTANCE DETERMINATION WITH COSMIC  
BACKGROUND RADIATION

FIG. 13